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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,399	02/19/2004	James R. Hanrahan	GT/112	6370	
28596	7590 01/26/2006		EXAM	EXAMINER	
GORE ENTERPRISE HOLDINGS, INC.			COMPTO	COMPTON, ERIC B	
551 PAPER MILL ROAD P. O. BOX 9206			ART UNIT	PAPER NUMBER	
NEWARK,	NEWARK, DE 19714-9206				
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Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date. _

6) __ Other:

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Species A (stock material), claims 1-7, 10-19, 22, 27-33, 38-41 and 44-45 in the reply filed on November 4, 2005 is acknowledged.
- 2. Claims 8-9, 20-21, 23-26, 34-37, and 42-43 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-7, 10-12, 30-33, and 38-41 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 731 153 to Korleski.

Regarding claim 1, Korleski discloses an article comprising:

a porous expanded PTFE material having a microstructure defined by nodes interconnected by fibrils wherein the nodes are aligned to form one or more column in the thickness direction of the material, see Figure 1, and

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at least one polymer resin selected form the group consisting of thermoset resins and thermoplastic resins distributed within the pores of the expanded PTFE, see

Abstract.

Regarding claims 10-12, and 30, "Figure 4 illustrates composite which can be fabricated using the present invention. Adhesive film A containing nodes B interconnected with fibrils C with adhesive D and particles E is attached to at least one layer of metal F." Page 8, lines 20-21.

Regarding claims 2-3, 31-32, see Figure 1 (showing left-most columns comprising a single node and other columns comprising a plurality of nodes).

Regarding claims 7 and 41, the expanded PTFE may include at least one filler. See Page 5, lines 21-28 (discussing fillers).

Regarding claim 4 and 38, the resin may be epoxy. See e.g., Page 8, line 33; Claim 11.

Regarding claims 5 and 39, the resin may be a polyimide. See e.g., Page 5, line 42 (mentioning "acetylene-terminated polyimide").

Regarding claims 6 and 40, the article/composite may contain two or more layers of expanded PTFE. See Page 7, line 9 ("... several layers can be combined to build a composite.").

Regarding claim 33, PTFE is a generally recognized wear resistant material. Furthermore, the reference notes changing components to increase toughness and strength. See e.g., Page 5, lines 47 & 54. The "wear-resistant" limitation is construed as an intended use and merely requires the inherent capable, which is the case here.

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5. Claims 1-4, 6-7, 10-116, 18-19, 27-33 38, 40-41 and 44-45 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. 3,953,566 to Gore.

Regarding claims 1, Gore discloses an article comprising:

a porous expanded PTFE material having a microstructure defined by nodes interconnected by fibrils wherein the nodes are aligned to form one or more column in the thickness direction of the material, see Figure 1, and

at least one polymer resin selected form the group consisting of thermoset resins and thermoplastic resins distributed within the pores of the expanded PTFE, see e.g. Example 11 (disclosing imbibing material).

Regarding claim 13, 33 and 44, Gore discloses, "These properties make impregnated materials of the type described here particularly using as bearing materials." Col. 16, lines 63-65 (emphasis added).

Regarding claims 2-3, 14-15, 31-32, see Figure 1 (showing some columns comprising a single node and other columns comprising a plurality of nodes).

Regarding claims 4, 16, and 38, the resin may be epoxy. See Col. 17, line 14.

Regarding claims 6 10-12, 18, 30, 40 and 45, the article/composite may contain two layers of expanded PTFE to form a laminate including epoxy. *See* Col. 17, lines 24-25.

Regarding claims 7, 19, and 41, the expanded PTFE may include at least one filler. See Col. 21, lines 60-65 (discussing fillers).

6. Claims 1, 4, 13, 16, 30, 38 and 44 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. 4,976,550 to Shobert.

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Regarding claims 1, 13, 30, and 45, Shobert discloses:

A plastic bearing is provided, as well as a method of fabricating these bearings, in which a number of strands of <u>expanded polytetrafluoroethylene</u> fibers are woven about a cylindrical mandrel to form a fabric about this mold surface. The fabric is then impregnated with a hardenable plastic. The plastic is hardened and the bearing is removed from the mold surface. The resulting plastic bearing has greatly improved wear resistance which permits new applications.

Abstract (emphasis added). Shobert discloses the fibers are GORE-TEX of the type formed by Gore.

Regarding claims 4, 16, and 38, the resin may be epoxy. See Col. 2, line 27.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 5, 17, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gore and/or Shobert in view of U.S. Pat. 6,548,188 to Yanase et al and/or U.S. Pat. 4,0745,512 to Matt

Gore and Shobert disclose the inventions cited above, but do not discloses polyimide as a resin.

Both Yanase and Matt disclose PTFE fiber bearings imbibed with resin, e.g., polyimide.

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Regarding claims 5, 17, and 39, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have imbibed the bearings of Gore and/or Shobert, with polyimide, in light of the teachings of Yanase and/or Matt, to provide increased wear resistance.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Compton whose telephone number is (571) 272-4527. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Jimenez can be reached on (571) 272-4530. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Eric B. Compton Primary Examiner Art Unit 3726

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